

# **SAFETY DATA SHEET**

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: VAICO VA-002-SYNT

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Lubricant

Containers >=20l for commercial use only

**Uses advised against:**No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier VIEROL AG

Karlstraße 19 26123 Oldenburg

Telephone: +49 441 210 20 - 0 Fax: +49 441 210 20 - 111

Contact for request of safety data sheets

E-mail: Automotive lubricants info@vierol.de

Industrial lubricants

Telephone: +49 441 210 20 - 0

Informing department for safety data sheets

E-mail: info@vierol.de

1.4 Emergency telephone number: Giftinformationszentrum Nord (Göttingen) +49 (0)551/19240

**SECTION 2: Hazards identification** 

#### 2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

**Health Hazards** 

Acute toxicity (Inhalation - dust Category 4 H332: Harmful if inhaled.

and mist)

Aspiration Hazard Category 1 H304: May be fatal if swallowed and enters air-

ways.

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**Environmental Hazards** 

Chronic hazards to the aquatic environment

Category 3

H412: Harmful to aquatic life with long lasting

**Hazard summary** 

**Physical Hazards:** By handling of mineral oil products and chemical products no particular

hazard is known when normal precautions (item 7) and personal protective

equipment (item 8) are kept.

**Environmental hazards:** This product is water polluting.

2.2 Label Elements

**Contains:** Hydrocarbons, low viscous



**Signal Words:** Danger

**Hazard Statement(s):** H332: Harmful if inhaled.

> H304: May be fatal if swallowed and enters airways. H412: Harmful to aquatic life with long lasting effects.

**Precautionary Statements** 

Prevention: P273: Avoid release to the environment.

P301+P310: IF SWALLOWED: Immediately call a POISON CEN-Response:

TER/doctor.

P331: Do NOT induce vomiting.

P312: Call a POISON CENTER or doctor/ physician if you feel unwell.

Disposal: P501: Dispose of contents/ container to an approved facility in accord-

ance with local, regional, national and international regulations.

Supplemental label information

EUH208: Contains: Alkyl methacrylate. May produce an allergic reaction.

2.3 Information on other haz-

ards

No data available.

Endocrine disrupting prop-

erties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation

(EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

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**General information:** Mixture of synthetic base oils with additives.

Chemical name	Identifier	Concentration *	REACH Registra- tion No.	Notes
Hydrocarbons, low viscous	EC: 500-228-5	50,00% - <100,00%	01-2119493069-28	
Base oil, naphthenic	EINECS: 265-156-6	10,00% - <20,00%	01-2119480375-34	
Base oil, low viscous	EC: 934-956-3	1,00% - <10,00%	01-2119827000-58	
base oil, low viscous	EINECS: 276-738-4	1,00% - <10,00%	01-2119474889-13	
base oil, paraffinic	EINECS: 265-169-7	1,00% - <10,00%	01-2119471299-27	
phenolic antioxidant	EINECS: 204-881-4	0,25% - <1,00%	01-2119565113-46	
Alkyl methacrylate	EINECS: 201-297-1	0,10% - <1,00%	01-2119452498-28	

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## Classification

Chemical name	Identifier	Classification	
Hydrocarbons, low viscous	EC: 500-228-5	CLP: Asp. Tox. 1;H304, Acute Tox. 4;H332	
Base oil, naphthenic	EINECS: 265-156-6	CLP: Asp. Tox. 1;H304	
Base oil, low viscous	EC: 934-956-3	CLP: Asp. Tox. 1;H304	
base oil, low viscous	EINECS: 276-738-4	CLP: Asp. Tox. 1;H304	
base oil, paraffinic	EINECS: 265-169-7	CLP: Asp. Tox. 1;H304	
phenolic antioxidant	EINECS: 204-881-4 CLP: Aquatic Acute 1;H400, Aquatic Chroni Factor (aquatic acute): 1; M-Factor (acic): 1		
Alkyl methacrylate	EINECS: 201-297-1	CLP: Flam. Liq. 2;H225, Skin Irrit. 2;H315, Skin Ser 1B;H317, STOT SE 3;H335	ıs.

CLP: Regulation No. 1272/2008.

# specific concentration limit

Chemical name		specific concentra- tion limit		Category	Hazard state- ments
Alkyl methacrylate	EINECS: 201-297-1		Specific target organ toxicity - single exposure	3	H335

For the wording of the listed hazard statements refer to section 16.

## **SECTION 4: First aid measures**

General: Change clothes and shoes contaminated or soaked by the product. Never

put rags contaminated by the product into clothing pockets.

4.1 Description of first aid measures

**Inhalation:** Supply fresh air and call for doctor for safety reasons.

**Eye contact:** Promptly wash eyes with plenty of water while lifting the eye lids.

**Skin Contact:** Wash with soap and water. The product is not skin irritating.

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PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



**Ingestion:** Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed:

Symptoms of poisoning may even occur after several hours; therefore med-

ical observation for at least 48 hours after the accident.

4.3 Indication of any immediate medical attention and special treatment needed

Get medical attention if symptoms occur.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant add-

ec

Unsuitable extinguishing

media:

Water with a full water jet.

5.2 Special hazards arising from the substance or mix-

ture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire-fighting proce-

dures:

No data available.

Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures:

In case of spills, beware of slippery floors and surfaces.

**6.2 Environmental Precautions:** 

Prevent from spreading (e.g. by binding or oil barriers).

6.3 Methods and material for containment and cleaning

up:

Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust).

6.4 Reference to other sec-

tions:

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

## **SECTION 7: Handling and storage:**

7.1 Precautions for safe handling:

Use only in well-ventilated areas. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.

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7.2 Conditions for safe storage, including any incompatibili-

ties:

Local regulations concerning handling and storage of waterpolluting products have to be followed. Prevent formation of aerosols. Do not heat up to

temperatures close to the flash point.

7.3 Specific end use(s): Not applicable

Storage Class: 10, Combustible liquids

## **SECTION 8: Exposure controls/personal protection**

#### **8.1 Control Parameters**

**Occupational Exposure Limits** 

Chemical name	Туре	Exposure Limit Values	Source
Hydrocarbons, low viscous - Respirable fraction.	MAK	5 mg/m3	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as amended (2011)
phenolic antioxidant - Inhala- ble fraction.	AGW	10 mg/m3	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (09 2012)
Alkyl methacrylate	AGW	50 ppm 210 mg/m3	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (01 2012)

## 8.2 Exposure controls

Appropriate engineering controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

General information: Wash hands before breaks and after work. Use personal protective equip-

ment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be ad-

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hered to inhandling the chemicals or the mineral oil products.

Eye/face protection: Avoid contact with skin and eyes. Goggles/face shield are recommended. If

risk of splashing, wear safety goggles or face shield.

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Skin protection

Hand Protection: Material: Nitrile butyl rubber (NBR).

Min. Breakthrough time: >= 480 min

Recommended thickness of the material: >= 0,38 mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufactur-

er of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser pock-

ets. Wear suitable protective clothing.

**Respiratory Protection:** Respirator type: If engineering controls do not maintain airborne concentra-

> tions below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufactur-

er for specific information.

Thermal hazards: Not known.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated foot-

wear that cannot be cleaned.

**Environmental Controls:** No data available.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid Form: liquid Color: Green

Odor: Characteristic

pH: substance/mixture is non-soluble (in water)

Freezing point: not determined **Boiling Point:** not determined

Flash Point: 160 °C

**Evaporation Rate:** Not applicable for mixtures

Flammability (solid, gas): not determined

Flammability Limit - Upper (%)-: Not applicable for mixtures Flammability Limit - Lower (%)-: Not applicable for mixtures Vapor pressure: Not applicable for mixtures Relative vapor density: Not applicable for mixtures

Density: 0,83 g/ml (15,00 °C)

Solubility(ies)

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Solubility in Water: Insoluble in water Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature:not determinedDecomposition Temperature:not determinedKinematic viscosity:18,5 mm2/s (40 °C)

**Explosive properties:**Value not relevant for classification **Oxidizing properties:**Value not relevant for classification

Particle characteristics:Not applicable9.2 Other informationNo data available.

**SECTION 10: Stability and reactivity** 

**10.1 Reactivity:** Stable under normal temperature conditions and recommended use.

**10.2 Chemical Stability:** No data available.

10.3 Possibility of hazardous

reactions:

None under normal conditions.

**10.4 Conditions to avoid:** Avoid heat or contamination.

**10.5 Incompatible Materials:** Strong oxidizing substances. Strong acids. Strong bases.

10.6 Hazardous Decomposition

**Products:** 

Thermal decomposition or combustion may liberate carbon oxides and oth-

er toxic gases or vapors.

#### **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

Oral

**Product:** Not classified for acute toxicity based on available data.

Specified substance(s)

Hydrocarbons, low vis-

cous

LD 50 (Rat): > 5.001 mg/kg

Base oil, low viscous LD 50 (Rat): > 5.000 mg/kg (OECD 401)

base oil, low viscous LD 50 (Rat): > 5.000 mg/kg (OECD 401)

phenolic antioxidant LD 50 (Rat): > 2.930 mg/kg (OECD 401)

Dermal

**Product:** Not classified for acute toxicity based on available data.

Specified substance(s)

phenolic antioxidant LD 50 (Rat): > 5.000 mg/kg (OECD 402)

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Inhalation

**Product:** ATEmix: 1,72 mg/l

Specified substance(s)

Hydrocarbons, low vis- LC 50 (Rat, 4 h): 1,17 mg/l

cous Dust and mist

Base oil, naphthenic LC 50 (Rat, 4 h): > 5,53 mg/l

Dust and mist

Base oil, low viscous LC 50 (Rat, 4 h): > 5,266 mg/l (OECD 403)

**Skin Corrosion/Irritation:** 

**Product:** Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation:

**Product:** Based on available data, the classification criteria are not met.

**Respiratory or Skin Sensitization:** 

**Product:** Skin sensitizer: Based on available data, the classification criteria are not

met.

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)

phenolic antioxidant

No sensitizing effect (guinea pig); OECD 406

**Germ Cell Mutagenicity** 

**Product:** Based on available data, the classification criteria are not met.

Carcinogenicity

**Product:** Based on available data, the classification criteria are not met.

Reproductive toxicity

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** Based on available data, the classification criteria are not met.

**Aspiration Hazard** 

**Product:** Based on available data, the classification criteria are met.

11.2 Information on other haz-

ards

**Endocrine disrupting properties** 

**Product:** The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation

(EU) 2018/605 at levels of 0.1% or higher.

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Product name: VAICO VA-002-SYNT

## **SECTION 12: Ecological information**

**General information:** Not applicable

12.1 Toxicity

**Acute toxicity** 

**Product:** Based on available data, the classification criteria are not met.

Fish

Specified substance(s)

Hydrocarbons, low vis-

COUS

LC 50 (Fish, 96 h): > 1.000 mg/l

Base oil, naphthenic LC 50 (Fish, 96 h): > 101 mg/l

Base oil, low viscous LC 50 (Fish, 96 h): > 1.028 mg/l (OECD 203)

**Aquatic Invertebrates** Specified substance(s)

Hydrocarbons, low vis-

cous

EC 50 (Water Flea, 48 h): > 1.000 mg/l

Base oil, low viscous LC 50 (Water Flea, 48 h): > 3.193 mg/l

base oil, low viscous EL50 (Water Flea, 48 h): > 10.000 mg/l (OECD 202)

EC 50 (Water Flea, 48 h): 0,61 mg/l (OECD 202) phenolic antioxidant

Chronic ToxicityProduct: Based on available data, the classification criteria are met.

**Fish** 

Specified substance(s)

base oil, low viscous NOEC (Fish, 14 d): > 1.000 mg/l

Aquatic Invertebrates Specified substance(s)

Hydrocarbons, low vis-

cous

NOEC (Water Flea, 21 d): 125 mg/l

base oil, low viscous NOEC (Water Flea, 21 d): 10 mg/l (OECD 211)

NOEC (Water Flea, 21 d): > 0,39 mg/l phenolic antioxidant

**Toxicity to Aquatic Plants** Specified substance(s)

Hydrocarbons, low vis-

cous

EC 50 (Alga, 72 h): > 1.000 mg/l

Base oil, low viscous ErC50 (Alga, 72 h): > 10.000 mg/l

base oil, low viscous NOEC (Alga, 72 h): > 100 mg/l (OECD 201)

## 12.2 Persistence and Degradability

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**Biodegradation** 

**Product:** Not applicable for mixtures

Specified substance(s)

Base oil, low viscous 74 % (28 d, OECD 306) Readily biodegradable

phenolic antioxidant 30 % (OECD 302C) Not readily degradable.

12.3 Bioaccumulative potential

Product:

Not applicable for mixtures

Specified substance(s)

phenolic antioxidant May be accumulated in organism

12.4 Mobility in soil:

**Product:** Not applicable for mixtures

12.5 Results of PBT and vPvB

assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Endocrine disrupting

properties

**Product:** The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation

(EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects:** No data available.

**Water Hazard Class** 

(WGK):

WGK 1: slightly water-endangering.

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**General information:** Dispose in accordance with all applicable regulations.

**Disposal methods:** Do not empty into drains; dispose of this material and its container in a safe

way. When storing used products, ensure that the waste categories and

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mixing instructions are observed.

**European Waste Codes** 

13 01 11\*: synthetic hydraulic oils

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### **SECTION 14: Transport information**

## ADR/RID

14.1 UN number or ID number: 14.2 UN Proper Shipping Name: -

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): –
Hazard No. (ADR): –
Tunnel restriction code: –

14.4 Packing Group: –

14.5 Environmental hazards: –14.6 Special precautions for user: –

#### **IMDG**

14.1 UN number or ID number: –
14.2 UN Proper Shipping Name: –

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): – EmS No.: –

14.3 Packing Group: –
14.5 Environmental hazards: –

14.5 Environmental nazards: –
14.6 Special precautions for user: –

#### **IATA**

14.1 UN number or ID number: –
14.2 Proper Shipping Name: –

14.3 Transport Hazard Class(es):

Class: Non-dangerous goods

Label(s):

14.4 Packing Group: –
14.5 Environmental hazards: –
14.6 Special precautions for user: –

14.7 Maritime transport in bulk according to IMO instruments: Not applicable.

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

#### **EU Regulations**

EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

**National Regulations** 

Water Hazard Class WGK 1: slightly water-endangering.

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(WGK):

15.2 Chemical safety as-

sessment:

No Chemical Safety Assessment has been carried out.

DIRECTIVE 2012/18/EU (SEVESO III) on the control of major-accident hazards involving dangerous substances

#### **SECTION 16: Other information**

**Revision Information:** Vertical lines in the margin indicate an amendment.

## Wording of the H-statements in section 2 and 3

H225	Highly flammable liquid and vapor.
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H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

**Training information:** Follow training instructions when handling this material.

**Revision Date:** 17.04,2023

**Disclaimer:** The data contained in this safety data sheet are based on our current

knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no sig-

nature.

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